

(NY-5500/6)

Introducing Television Techniques into Power
Engineering, by V. V. Mulikov, 13 pp.

RUSSIAN, per, Elektricheskiye Stantsii, Mar 1961,
pp 2-6.

JPRS 9866

USBR

168,642

Sci - Electron

Sep 61

CHANGING OVER FROM CENTRIFUGAL TO HYDRODYNAMIC
GOVERNING OF TURBINES, BY L. M. FEDOTOV.

RUSSIAN, PER, ELEK STANTSII, VOL XXXII, NO 3,
1961, PP 16-2L.

NLL M. 6335

SCI - ENGR

NOV 62

217,684

(NY-3000)

Rated and Continuous Maximum Power of
Steam Turbines and Generators for Them,
by A. N. Krikunchik, 6 pp.

RUSSIAN, per, Elektricheskiye Stantsii,
1961, pp 21-22.

JPRS 11732

USSR
Econ
Jan 62

178,064

Cleaning Steam Turbine Condensers With Rubber Balls,
by L. B. Zushmanovich.

RUSSIAN, per, Elek Stantzii, Vol XXII, No 3,
1961, pp 26-33.

WLL M. 4887

Sci - Engr

Aug 62

207,163

Investigation of Thermal Conditions and
Elimination of Overheating in a Hydrogenera-
tor Step Bearing, by A. E. Aleksandrov.

RUSSIAN, per, Elektricheskaya Stant,
No 3, 1961, pp 49-55.

NLL M.3468

Eci - Engr

Apr 62

193,913

(DC - 57926)

Certain Problems in Further Development of Thermal
Electric Power Stations and Power Grids, by G. S.
Zelevinskiy and A. M. Nekrasov,

per
Russian, ~~Monthly~~, ~~Elektricheskoye Stantstii~~, 1961,
No. 4, Moscow, April 1961, pp 2-9.

JPRS 8677

Econ/Electric Power
May 61

Dept Interior

4536 454 8677

Anti-Corrosion Protection of Hydro-Mechanical
Equipment by Varnish Coating Materials, by
M. I. Finkelshteyn, I. A. Zholondz'.

Ref.
POL.USH, per., Elektricheskiy Stantsii,
Vol. XXXII, No 4, 1961, pp 28-33.

GB/153/618

Sol-Chem
Feb 63

223,503

CORROSION PROPERTIES OF STEELS EI-847
AND EI-851 EXPOSED TO SUPERHEATED STEAM,
BY D. YA. KAGAN, L. S. ZHURAVLEV.

RUSSIAN, PER, ELEK STANTSII, VOL XXXII,
NO 4, 1961, PP 33, 34.

NLI M.4663

SCI - CHEM

JUN 62

199,103

Application of Gas Chromatography in the
Control of Power Station Boilers, by
A. K. Vnukov, R. P. Izedzik.
RUSSIAN, per, Elek Stantsii, Vol XXXII, No 5,
1961, pp 12-15.
ALL Ref: 9022.09 1964. (3297) (loan copy)

Sci
Aug 64

METHODS OF CALCULATING ECONOMIC LOAD DISTRIBUTION
IN COMBINED POWER SYSTEMS ON DIGITAL COMPUTERS, BY
V. S. SHAKHANOV.

RUSSIAN, PER, ELEK STANTSII, NO 5, 1961, PP 27-34.

NLL M. 3805

SCI - ELECTRON

USSR.

ECON

OCT 62

214,721

BASIC PRINCIPLES OF THE CONSTRUCTION OF A COMPUTER
FOR OPERATIVE CALCULATIONS OF ECONOMIC LOAD
DISTRIBUTION IN A COMBINED POWER SYSTEM, BY S. A.
GINZBERG, ET AL.

RUSSIAN, PER, ELEK STANTSII, NO 5, 1961, PP 35-41.

NLL M. 3804

SCI - ENGR

OCT 62

214,713

Protecting Power Systems From Frequency Surges,
by L. M. Levit.

RUSSIAN, per, Elek Stant, Vol. XLVII, No 5,
1961, pp 71-75.

HLA RTS 2029

Su1 - Electron

Aug 62

207, 194

DETERMINING THE SUPER-TRANSIENT INDUCTIVE
REACTANCES OF TURBO-GENERATORS, BY N. L.
SAKHNOVSKIY.

RUSSIAN, PER, ELEK STANTSII, NO 6, 1961,
PP 84, 85.

NLL M. 3803

SCI - ENGR

OCT 62

214,180

Effect of Turn Short-Circuits in a Turbo-Generator
Rotor on Its State of Vibrations, by K. A.
Khrushchey,

RUSSIAN, per, Elek Stantsii, No 8 7, 1961,
pp 40-45.

ALL M. 3572

Sci - Electron

207,768

Jul 62

WORKING OF CARRIER CLAMP OF TYPE PG-5 -10A UNDER
CONDITIONS OF RELEASE OF SPLIT PHASE CABLES,
BY N. M. BOYEV.

RUSSIAN, PER, ELEK STANTSII, NO 7, 1961, PP 57-61.

NLL M. 6171

SCI - ENGR

OCT 62

214,711

(SF-1877)

Further Electrification of Agriculture, by T. A.
Tevosyan, 4 pp.

RUSSIAN, per, Elek Stantsii, No 8, 1961, pp 2-6.

JPRS 11708

USSR

Econ

Jan 62

181,573

(SF-1877)

New 2800 Mw Capacity Gres, by S. S. Rakita, 16 pp.

RUSSIAN, per, Elek Stantai, No 8, 1961, pp 6-13.

JPRS 11708

USSR

Econ

Jan 62

181,574

A New State Regional Electric Power Plant Rated at
2800Mw, by S. S. Rakita, 3 pp.

RUSSIAN, per, Elektricheskiye Stantsii, No 8, 1961,
pp 6-13.

Interntl Physical Index
Power Express
Vol I, No 3

USSR

200,982

Econ

Jun 62

(SF-1877)

Construction and Operation of an Open Power Plant, by
N. G. Lobanenko, M. Kh. Guseynov, B. V. Frumen,
5 pp.

RUSSIAN, per, Elek Stantsii, No 8, 1961, pp 14-19.

JPRS 11708

USSR

181,575

Econ

Jan 62

Instruments for Measuring Contact Temperatures
in Conducting Parts, by A. I. Korolev,
RUSSIAN, per, Elektricheskie Stantsiy, Vol
XXII, No 8, 1961, pp 85-86.
OTS TT 64-19889

Seppt66

309,105

The Dancing of Conductors on a 110 kV
Transmission Line, by L. A. Rataikov.

RUSSIAN, per, Elek Statist, Vol XXII, No 8,
1961, p 86.

NLL Ref. 9822.09 1963 (2,597)
(Loan)

Sci - Electron
Nov 63

242,252

(SF-1877)

Power Engineering in the USSR by the 22nd Party
Congress, 5 pp.

RUSSIAN, per, Elek Stantsii, No 9, 1961, pp 2-6.

JPRS 11708

USSR

181,162

Econ

Jan 62

The Technology of the Dynamic Balancing of
Turbo-Prop Rotors on the Side of Their
Installation, by G. I. Mikulic.

RUSSIAN

RUSSIAN, per, Alex Stantoli, No 9, 1961, pp 22-23

MLA J 5040

811 - ELATION

Apr 63

Energy Potentialities of High Temperature Gas
Turbines, by D. I. Mariev.

RUSSIAN, per, Elektricheskiye Stantsii, Vol XXXII,
No 10, 1961, pp 18-22.

NLL M 375

Sci - Fuels
Mar 63

225,412

SWITCHING OF NO LOAD CURRENT OF 110KV
TRANSFORMERS OF UP TO 60MVA BY MEANS OF ISOLATORS
AND DISCONNECTING SWITCHES, BY L. S. BELEN'KI,
V. P. KOROBKOVA.

RUSSIAN, PER, ELEK STANTSII, VOL XXXII, NO 10,
1961, PP 43-47.

NLL M. 3866

SCI - ELECTRICITY

OCT 62

214,792

REINFORCING THE INSULATION OF ELECTRIC POWER LINES
IN THE AREAS OF INTENSE ATMOSPHERIC POLLUTION, BY
M. D. GLEIZER.

RUSSIAN, PER, ELEK STANTSII, VOL XXXII, NO 10,
1961, PP 61-65.

NLL M. 6168

SCI - ELECTRON

OCT 62

214,714

THE ASYNCHRONOUS STARTING OF A 50-MW, 1500R.P.M.
TURBO-GENERATOR, BY S. P. BOROVKOV, ET AL.

RUSSIAN, PER, ELEK STANTSII, NO 10, 1961,
PP 81-86.

NLL M. 3799

SCI - ENGR

OCT 62

214,176

(SF-1877)

New Standards of Technological Designing
of Thermo-Electric Power Stations, by
B. O. Loshak, 7 pp.

RUSSIAN, per, Elektricheskiye Stantsii,
No 11, 1961, pp 7-10.

JPRS 13533

191,667

USSR
Recon
Apr 62

TURBO-TYPE GENERATORS OPERATING AS SYNCHRONOUS
COMPENSATORS, BY V. A. MACHLIN, V. I. SOKOLOV.

RUSSIAN, PER, ELEK STANTSII, NO 11, 1961,
PP 33-36.

NLL M. 3798

SCI - ENGR

OCT 62

214,179

THE OPERATION OF TURBO- AND HYDROGENERATORS WITH
UNDER-EXCITATION, BY YA. D. BARKAN, I. I.
KUZNETSOV.

RUSSIAN, PER, ELEK STANTSII, NO 11, 1961, PP 50-53.

NLL M. 3797

SCI - ENGR

OCT 62

214,710

The Appearance of Inter-Turn Short-Circuits
in the Windings of the Moving Rotors in Turbo-
Generators, by R. M. Manevich.

RUSSIAN, per, Elek Stantsii, No 11, 1961, pp 53-56.

MIL M 5036

Sci - Electron
Mar 63

226,808

Protection of Transformer Insulation From
Humidification and the Stabilization of Transformer
Oil Properties, by A. A. Koz'ma.
RUSSIAN, per: Elektricheski Stantsii, No 11, 1961,
pp 76-79.
GB/153/625

Sci - Engr
Apr 64

253,355

Automatic Recording of Internal Overvoltages in
High-Voltage Networks, by Yu. A. Mihailov, I. F.
Polovoi, I. V. Chernyshev, 13 pp.

RUSSIAN, per, Elektricheskie Stantsii, Dec,
No 12, 1961, pp 47-50.

(LOAN) NLL REF. 9022.09 1963 (2726)

CIA FDD XX-1329

NO FOREIGN DISSEM

OTS 77-63-23946 (8pp)

Sci
Feb 63

221,695

USIB INTERNAL USE ONLY

(SF-1877)

Scientific-Technical Problems Connected With
Carrying Out Lenin's Idea of Electrification,
15 pp.

RUSSIAN, per, Elektricheskiye Stant, No 1,
1962, pp 2-5.

JPRS 13717

196, 989

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Econ

Sci - Eng

May 62

Method of Calculating When Washing is Due
for Supercritical Pressure Boilers, by
E. P. Dick, M. D. Panasenko.

RUSSIAN, per, Elekt Stantsiy, Vol XXXIII,
Oct 1962, pp 17-19.

l
*UKAEA/Windscale
Tr 49

Sci - Phys

May 63

Measuring the Bending Stress in Austentic-Steel
Steam Pipes, by V. A. Nakhalov, V. S. Demb.

RUSSIAN, per, Elektricheskiye Stantsii,
Vol XXXIII, May 1962, pp 21-24.

■ *UKAEA Windscale
Tr No 32

Sci - Min/Met

28 Feb 1963

Impact Strength of Cr-Mo-V Steel, by E. Ya. Vekaler.
RUSSIAN, per, Elektromechanika Stanisl, Vol XXXIII, 1962,
pp 35-37.

GB/DEK10/3056

Sci - M/M

Feb 64

250,510

Reduction of Clearance of Overhead Transmission
Lines, by Z. E. Kozhanova, et al.

RUSSIAN, *Elek Stantsii*, Vol XXXIV, No 1,
1962, pp 43-45.

NLL Ref: 9022.09 1963 (3111) (Loan)

Sci
Feb 64

Determining the Permissible Degree of Moisture
for Transformer Insulation, by V. I. Zvezdkin.

RUSSIAN, per, Elek Stantsii, No 1, 1962, pp 51-5⁴.

NLL M 5038

Sci - Electron
Apr 65

226,804

To: Remote Disconnection Device, by V. S.
Skifaltsev.

RUSSIAN, per, Elektr. Stantsii, Vol XXXIII,
No 1, 1962, pp 60-64.

MLL M 8899

Sci - Engr
Feb 63

223,571

Artificial Limitation of Wind Pressure Loading of
Electric Transmission Towers, by A. V. Saiko,
A. Kh. Krokharin, 7 pp.
RUSSIAN, per, Elektricheskie Stantail, No 1, 1962,
pp 67-69.
CIA/FDO XX-1561
NO FOREIGN DISSEM

Sci - Elec
Jun 64
USIB Internal Use Only

261,2481

Dust Separation in a TsKKB Classifier,
V. V. Lukyanov.
RUSSIAN, per, Elek Stantsii, Vol XXX, 1962,
pp 77-78
NLL Ref: 9022.09 1964 (3296) (loan copy)

Sci
Aug 64

THE EFFECT OF A LACQUER COATING ON ROTOR
HEATING, BY G. S. DEGIL.

RUSSIAN, PER, ELEK STANTSII, VOL XXXIII, NO 1,
1962, PP 81, 82.

NLL M. 3727

SCI - CHEM

OCT 62

214,177

Conductor Galloping on 110 kV Lines,
by V. N. Andrievskii.
RUSSIAN, per, Elektr. Stantsii, 1962,
No 1, pp 86-87.
NLI 9022.09 1964 (3554) (On Loan)

Aug 65

286,494

63-15699

1. Mankina, N. N.

Mankina, N. N.
CONDITIONS OF FORMATION OF DEPOSITS IN THE
PRESENCE OF A NUMBER OF SCALE FORMERS
AND METHODS OF THEIR PREVENTION (Usloviya
Obrazovaniya Olozheni v Prisutstvi Ryada
Nakipobrazovatelei i Sposoby Ekh Predotvrashcheniya).
[1962] 17 p. (foreign text included) 6 refs.
Order from OTS or SLA \$1.60

63-15699

Trans. of Elektricheskii Stantsii (USSR) 1962 [v. 33]
no. 2, p. 13-16

DESCRIPTORS: *Iron compounds, *Oxides, *Copper
compounds, *Scale, Deposits, *Antioxidants,
Hydrazines, Phosphates, *Feed water, *Boilers.

Hexametaphosphate decreases the rate of iron oxide
scale formation by 65% to 75% and completely prevents
hardness and copper scale. Hydrazine prevents iron
(Chemistry, T1, v. 10, no. 7)

(over)

Office of Technical Services

The Relation Between the Wet Flashover Voltage
of Insulators and the Duration of the Voltage
and the Intensity of the Rain, by E. V.
Kalinin.

RUSSIAN, per, Elektr. Inzhnir, No 2, 1962, pp 59-62.

ALL N 5039

Sci - En Electron
Mar 63

226,802

Gorskii, Yu. M. and Manevich, E. M.
A SEMICONDUCTOR REMOTE PHASE-METER WITH
TAPE RECORDER ATTACHMENT. [1963] [14p] 2refs
C. E. Trans. 2656,
Order from OTS or SLA \$1.60

63-24079

Trans. of Elektrotekhnika i Svyaz (USSR) 1962, v. 33,
no. 2, p. 75-83.

DESCRIPTORS: *Phase meters, *Measuring devices
(Electrical and electronic), Magnetic recording sys-
tems, Remote control systems, Transmission lines,
Design, *Semiconductor devices, Failures (Mechanics),
Detectors.

(Engineering--Electrical, TT, v. 10, no. 12)

63-24079

- I. Gorskii, Yu. M.
- II. Manevich, E. M.
- III. CE Trans-2656
- IV. Central Electricity
Generating Board
(Gt. Brit.)

Office of Technical Services

DETERMINING THE EFFICIENCY OF THE CENTRIFUGAL
SEPARATOR OF A ONCE-THROUGH BOILER UNDER INDUSTRIAL
CONDITIONS, BY M. N. KEMEL'MAN.

RUSSIAN, PER, ELEK STANTSII, NO 3, 1962, PP 11-13.

NLL M. 3793

SCI - ENGR

OCT 62

214,181

63-15697

I. Akolzin, P. A.

Akolzin, P. A.
PREVENTION OF ACCUMULATION OF CORROSION
PRODUCTS IN STEAM BOILERS (Predotvrashchetsie
Nakopleniya Produktov Korrozii v Parovykh Kotelakh)
[1962] 13p. (foreign text included) 4 refs.
Order from OTS or SLA \$1.60

63-15697

Trans. of Elektricheskie Stantsii (USSR) 1962 [v. 33]
no. 3, p. 14-17.

DESCRIPTORS: *Corrosion, *Boilers, Steam, Feed
water, Copper, Iron compounds, Oxides, Carbonic
acids, Scale, *Corrosion inhibition, Coatings, Corro-
sion-resistant alloys, Water softeners, Water filters,
Cellulose

Page 14-17
100 157

(Metallurgy--Corrosion, TT, v. 10, no. 3)

Office of Technical Services

Experience in the Assembly of a 150-MV Unit,
by H. E. Verbitskiy.

RUSSIAN, per, ~~Elektr~~ Stankii, Vol XXXIII,
No 5, 1962, pp 53-57.

NLL Ref: 9022.09 1963 (2715) (Loan)

Sol - Electron
Feb 64

248,592

THE BOILING REACTOR -- A PLANNED UNIT FOR ATOMIC
POWER, BY B. YE. DOROSHCHOK, YU. N. MAKAROV,
7 PP.

RUSSIAN, PER, ELEKTRICHESKIYE STANTSII, NO 4, 1962,
PP 11-14.

JPRS 15518

USSR
ECON
OCT 62

212,925

Construction of a High-Capacity High-Efficiency
Carbon Dioxide Power Plant, by V. L. Dekhtyarev.

RUSSIAN, per, Elek Stantsii, Vol XXXIII, No 5,
1962, pp 2-6.

NLL Ref: 9022.09 1963 (2702) (loan)

May 64

Anti-Corrosion Protection of Water-Proofed
Equipment, by V.L. Vinarskii.
RUSSIAN, Eng. Elek. Stantsii, Vol. 12, No. 2, 1962,
pp 19-21.
GE/153/745

Sol -
July 1967

314-515

Anti-Corrosion Protection of Waterproofed
Equipment, by V. L. Vinarskiy.

RUSSIAN, per, Elek Standart, No 5, 1962, pp 19-21.

ELL M 5095

Ssi - Engr
May 63

229,136

Measuring the Bending Stresses in Austenitic-
Steel Steam Pipes, by V. A. Makhilov, V. S. Demb.

RUSSIAN, per, Elekt Stantsii, Vol. XXXIII, No 5,
1962, pp 21-24.

UKAEA-Windscale Tr-23
Available on loan only

Su1 - Elect

Jul 63

238,242

TT-63-23979

Bering, V. S.
INSTRUMENTS FOR THE LOCATION OF SELF-
CLEARING FAULTS ON A TRANSMISSION LINE.
[1963] 7p. C. E. Trans. 2958.
Order from OTS, SLA, or ETC \$1.10 TT-63-23979

Trans. of Electr[istics] Science (USSR) 1962,
v. 33, no. 3, p. 43-48. (Abstract available).

DESCRIPTORS: *Transmission lines, *Electric cables,
*Failure (Mechanics), Determination, *Measuring
devices (Electrical and Electronic), Design, Operation.

The circuitry, development, and operational tests of
devices for determination of location of transmission
line faults are discussed.

(Engineering--Electrical, TT, v. 11, no. 2)

- I. Bering, V. S.
- II. CE Trans-2958
- III. Central Electricity
Generating Board
(Gt. Brit.)

NLL (LOAN) Ref:

9022.09 1963(2,958)

Office of Technical Services

63-23977

Bulisko, A. D., Deryugin, F. F., and Zarichnaya, A. N.

INSTRUMENT FOR LOCATING THE PROBABLE POSITION OF A TRANSMISSION LINE FAULT.

[1963] [6p] C. E. Trans. 2959.

Order from OTS or SLA \$1.10

63-23977

Trans. of Elektricheskoe Stantail (USSR) 1962, v. 33, [no. 5] p. 48-50.

DESCRIPTORS: *Transmission lines, *Failure (Mechanical), Determination, *Ammeters, Design, Operation.

The basic circuitry and output characteristics of the AI-2 device (pulse ammeter), used to locate faults in transmission lines by registering the zero-sequence current of a line, are discussed. The basic element of the device is a mass-produced millicoulomb meter type M-368.

(Engineering--Electrical, TT, v. 10, no. 12)

- I. Bulisko, A. D.
- II. Deryugin, F. F.
- III. Zarichnaya, A. N.
- IV. CE Trans-2959
- V. Central Electricity Generating Board (Gt. Brit.)

NLL (LOAN) R.T:
9022.09 1963 (2.959)

Office of Technical Services

TT-63-23970

El'mov, V. M.
FAULT LOCATION ON ELECTRICAL TRANSMISSION
LINES. [1963] [5p] C. E. Trans. 2960.

Order from OTS, SLA, or ETC \$1.10 TT-63-23970

Trans. of Elektrotekhnika i Svyaz' (USSR) 1962,
v. 33, no. 5, p. 51-52. (Abstract available)

DESCRIPTORS: *Transmission lines, *Electric cables,
*Failure (Mechanics), Determination, *Measuring
devices (Electrical and Electronic), Design, Operation.

An apparatus for automatic measurement of a fault
voltage (AMFL) is described. The device enables the
distance to the point on the line at which the fault has
occurred to be determined by measurement of the zero
or negative sequence voltage across the ends of the
damaged line at the moment of the short-circuit. The
action of the AMFL is as follows: when there is a short-
(Engineering--Electrical, TT, v. 11, no. 2) (over)

- I. El'mov, V. M.
- II. CE Trans-2960
- III. Central Electricity
Generating Board
(Gt. Brit.)

NLL(LOAN)REF.
9022.09 1963(2,960)

Office of Technical Services

KHTEZ STEAM TURBINE UNITS FOR POWERFUL ELECTRIC
POWER BLOCKS, BY L. A. SHUBENKO-SHUBIN, 5 PP.

RUSSIAN, PER, ELEKTRICHESKIYE STANTSII, NO 6,
1962, PP 2-8.

JPRS 15608

USSR
ECON
OCT 62

W. A. R. 903503 1962 213,456
(4044 COPY)

SPECIFIC FEATURES OF THE TPP-110 SUPERCRITICAL
PRESSURE BOILER, BY L. A. OSTROVSKIY,
M. V. MEYKLYAR, 14 PP.

RUSSIAN, PER, ELEKTRICHESKIYE STANTSII, NO 6,
1962, PP 8-14.

JPRS 15608

USSR
ECON
SCI - ENGR
OCT 62

213,457

The Utilization of Sulfurous Mazout
for High-Capacity Electric Power
Stations, by Z. F. Chukenov.
RUSSIAN, per, Elektricheskie Stantsiya,
No. 6, 1962, pp 21-27.
HTC 72-11214-21D

May 72

The Operation of the 200 MW Unit Turbine
Equipment in the Zmievskoi State Regional
Electric Power Station, by A. Ya. Krol.

RUSSIAN, per, Elek Stantsii, Vol XXXIII,
No 6, 1962, pp 27-31.

NLL Ref: 9022.03 1963 (3363)
(loan Copy)

Sci
Sep 64

Use of the Reinforcements in the Concrete of a
Hydro-electric Power Plant Building as a Grounding
System, by V. P. Brinerberg, 25 pp.
RUSSIAN, per, Elektricheskiye Stantsii, No 6,
1962, pp 41-45.
AEC/SLAC-Tr-113-70

Sci/Enere Conv

The Cleaning of Live Insulators by a Discontinuous
Stream of Water, by M. P. Fedotov.
RUSSIAN, per, Elektr. Stantsii, Vol XXXIII, No 6, 1962,
pp 66-69.
CEGB 3137

Sci - Engr
Apr 64

255,121

Protecting the Blades of Steam Turbines Against
Erosion, by A. M. Korzenko.

RUSSIAN, per, Elek Statist, No 6, 1962,
pp 8 73-74.

ILL N 5027

Sci - Eng
Mar 63

226,801

Power Losses in a Turbine Stage Due to the Leaking
Wires, by I. I. Kirillov, R. B. Kuz'michev.

RUSSIAN, per, Elek Stantsii, No 7, 1962, pp 38-42.

NIL M 5030

Sci - Engr
Mar 63

226,543

Designing h.v. Insulators for Heavily
Polluted Regions, by S. G. Sokolov.

RUSSIAN, per, Elek Stant, Vol XXXIII, No 7,
1962, pp 59-64.

NLL Ref: 9022.09 1964 (3355) (loan)

May 64

63-23967

Fuks, L. A.
TYPE AK-10 TURBOGENERATOR UNDER STEAM
AND STEAMLESS CONDITIONS. [1963] [5p]
C. E. Trans. 2947
Order from OTS or SLA \$1.10 63-23967

Trans. of Elektromashinostroi (USSR) 1962
[v. 33] no. 7, p. 82-85.

DESCRIPTORS: *Turbines, *Generators, Steam,
Electric power production, Feasibility studies.

Studies were conducted on a type AK-10 turbogenerator to determine the feasibility of adapting it for steamless conditions, without any important changes in the turbine design. Observations were recorded on change-over of the turbogenerator from steamless to steam conditions of operation. Operation of the AK-10 turbogenerator for over three years on the mixed operating routine proved it to be perfectly reliable. (Engineering--Mechanical, TT, v. 10, no. 12)

I. Fuks, L. A.
II. CE Trans-2947
III. Central Electricity
Generating Board
(Ot. Brit.)

NLL (LOAN) Ref.
9022.09 1963 (2,947)

Office of Technical Services

Graphical Method for Determining Heat Losses in Boiler Tests, by I. I. Loginov.

RUSSIAN, per, Elek Stantsii, Vol XXXIII, No 8, 1962, pp 9-12.

ALL Ref: 9022.09 1963 (2970) (Loan)

Sci
Feb 64

AUTOMATION OF THE MODE OF OPERATIONS IN
POWERFUL HYDROELECTRIC POWER STATIONS AND
400-500 KILOVOLT POWER LINES, BY S. A. SOVALOV,
M. A. BERKOVICH, 23 PP.

RUSSIAN, PER, ELEKTRICHESKIYA STANTSII, NO 8,
1962, PP 37-46.

JPRS 16265

SCI & ELECTRONICS

NOV 62

219,772

Starting-up Large Synchronous Compensators by
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Sol - Elektron
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DC-8329

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Trans. of Elek[tricheskie] Stantsii (USSR) 1962
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DESCRIPTORS: *Transmission lines, *Electric
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(Engineering--Electrical, TT, v. 10, no. 12)

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Order from CFSSTL SLA, or ETO: HC\$1.50, MF\$0.50
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I. Central Electricity
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NLL/9022091963(3111)

(Engineering--Electrical, TT, v. 11, no. 12)

TT-63-24594

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II. Kozhemyakin, V. G.
III. Naumovskii, L. D.
IV. Tsirel', Ya. A.
V. CE-Trans-3111
VI. Central Electricity
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TT-63-24093

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BRUSH SLIDING CONTACT ON TURBO-GENERATOR
SLIP RINGS. [1963] [6p] Brefs. C. E. Trans. 2999.
Order from OTS, SLA, or ETC \$1.10 TT-63-24093
Trans. of Elekt[richeskii] Sostell (USSR) 1963, v. 34,
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DESCRIPTORS: *Slip rings, Generators, Turbines,
*Sliding contacts, Brushes, Power equipment.

Investigations carried out on the slip ring brush contact
confirm that, in defined conditions between the ring and
the brush, there is a wedge-shaped air gap. The
tangential dimension of the brush should be as small as
possible to lower the aerodynamic lifting force and
ensure sparkless operation at high linear velocities of
the slip ring. An effective means of improving the
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FSTC 381-T6--15

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